

CLAIMS

1. A metal-flake manufacturing apparatus, characterized in that a nozzle is arranged to eject molten metal on a cooling roll surface and cooling rolls, which quench molten metal from this nozzle into metal thin bodies and on which the produced metal thin bodies are hit into flakes, are arranged in plural numbers and are spaced to have a gap or gaps of a size greater than thickness of metal thin bodies.

2. A metal-flake manufacturing apparatus according to claim 1, characterized in that said plurality of cooling rolls are arranged at different heights so that the produced metal thin bodies are sequentially hit on the rolls.

3. A metal-flake manufacturing apparatus according to claim 1 or 2, characterized in that rotational axes of said cooling rolls are mutually out of parallelism.

4. A metal-flake manufacturing apparatus according to any one of claims 1 to 3, characterized in that said cooling rolls are adapted to rotate at different peripheral velocities.

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5. A metal-flake manufacturing apparatus according to any one of claims 1 to 4, characterized in that said cooling rolls are adapted to have different roll diameters.
6. A metal-flake manufacturing apparatus according to any one of claims 1 to 5, characterized in that said nozzle has a plurality of nozzle openings along an axis of the cooling roll.
7. A metal-flake manufacturing apparatus according to claim 6, characterized in that the nozzle openings of said nozzle have a sectional area of 0.78-78 mm².
8. A metal-flake manufacturing apparatus according to any one of claims 1 to 7, characterized in that said nozzle and said cooling rolls are placed in atmospheric gas and windbreak members are arranged to prevent the atmospheric gas from being swirled by the rotating cooling rolls.
9. A metal-flake manufacturing apparatus according to claim 8, characterized in that gas from atmospheric gas supply nozzles for supplying said atmospheric gas is directed to guide the metal flakes toward a storage box in which metal flakes are to be stored.

10. A metal-flake manufacturing apparatus according to claim 9, characterized in that said storage box has a cooler for cooling the metal flakes stored.

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